OBE OMNIBEAM™ 400 LUMINAIRE NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Surface Mount Optical Series

APPLICATIONS

- For over 20-foot (6 meter) applications, assembly lines, inspection areas, production bays, storage areas, warehouses, commercial and retail areas.

SPECIFICATION FEATURES:

- Ⓤ 1598 Listed
  Suitable for Damp Location
- Choice of open/ventilated or enclosed opticals with choice of acrylic clear or prismatic lens.
- Prismatic acrylic reflector.
- 55° C ambient, standard
- Nuvation ™ electronic ballast:
  - Dimming Option — dims lamp to 50% of rated lamp wattage.
  - Two piece heavy-duty die cast aluminum housing
  - Integral optical mounting design for GELS "Surface Mount Opticals"
  - Attractive round ballast housing design with white polyester paint finish
  - Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
  - Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical Magnapack available for ballast.

ORDERING NUMBER LOGIC

OBE	W	40	N	G	E	V6	AC	11	X
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
OBE = Omnibeam 400 Luminaire Surface Mount optical with Nuvation Electronic Ballast	**W** = White Polyester Powder	**25** = 250 **32** = 320 **35** = 350 **40** = 400	**N** = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp is not included.	**G** = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies: **2** = 208 **3** = 240 **4** = 277	**E**= Electronic **C**= Dimming	**E2** = Enclosed 22-in. with clear flat arcylic lens. **P2** = Enclosed 22-in. with prismatic conical acrylic lens. **E6** = Enclosed 26-in. with flat clear acrylic lens. **V6** = Open and ventilated 26-in. acrylic.	**XX** = Select Code from Photometric Selection Table	**11**= Pendant Slide on Box **15** = Prewire with Loop, Cord and Plug part "Power Hook". *(Order Receptacle/Hook Box separately)* Discrete Voltages must be specified when ordering cord & plug assemblies below: **31** = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG **33** = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG *(Order Locking Receptacle Separately, if required)* **MODULAR PREWIRE** **41** = ACS with 3 ft (.9 meter) cord & Hook **69** = ACS with 6 ft (1.8 meter) cord & Hook **43** = ACS with 3 ft (.9 meter) cord & Loop **70** = ACS with 6 ft (1.8 meter) cord & Loop **PLUG-N-GO** **51** = Plug-N-Go with 3 ft. (0.9 meter) Cord & Hook **71** = Plug-N-Go with 6 ft. (1.8meter) Cord & Hook **53** = Plug-N-Go with 3 ft. (0.9 meter) Cord & Loop **72** = Plug-N-Go with 6 ft. (1.8 meter) Cord & Loop Note: ACS = Flex 3+ Plug-N-Go = FSC Series	**Q** = Automatic switched quartz **S** = Exclusionary mogul base socket for MH open fixtures.

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option).
Customer should consult or review local electrical codes for compliance.

All Electronic devices are susceptible to transient voltage spikes. For facilities where the lighting circuits are not protected from transient voltage spikes a (TVSS) Transient Voltage Surge Suppression system is recommended. To protect the NuVation ballast a TVS protection system must be able to suppress a 3000V ring wave as described in ANSI/IEEE C62.41 B1.

OBE OMNIBEAM™ 400 LUMINAIRE
NUVATION™ Electronic Ballast

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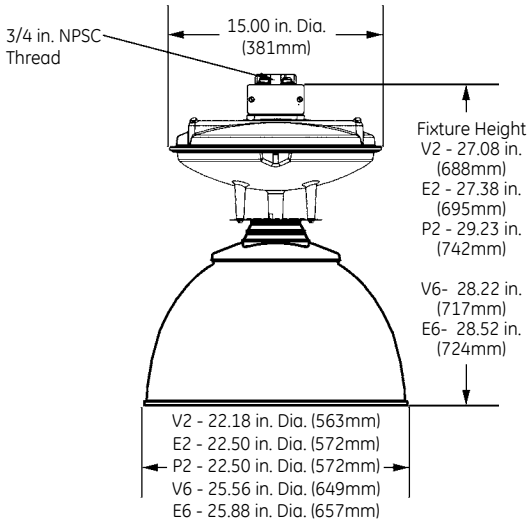
FIXTURE DIMENSIONS


3/4 in. NPSC Thread
15.00 in. Dia. (381mm)
Fixture Height
V2 - 27.08 in. (688mm)
E2 - 27.38 in. (695mm)
P2 - 29.23 in. (742mm)
V6- 28.22 in. (717mm)
E6- 28.52 in. (724mm)
V2 - 22.18 in. Dia. (563mm)
E2 - 22.50 in. Dia. (572mm)
P2 - 22.50 in. Dia. (572mm)
V6 - 25.56 in. Dia. (649mm)
E6 - 25.88 in. Dia. (657mm)

NOTES

See explanation on "Optical Flexibility" Page I-4. See References.

REFERENCES

See Page I-104 for start of Accessories.
See Page I-117 for Component Ordering Logic.
See Page I-129 for Explanation of Options and Other Terms Used.

DATA

Approximate Net Weight	lbs	kgs
Ballast and Optical	15-30	7-14

BALLAST DATA

* 13% Improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
* 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
* 50% lower ballast losses than typical CWA magnetic HID ballast.
* Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
* Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
* Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
* Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
* Ballast has an end-of-lamp-life detection and shutdown circuit.
* The ballast shall have a minimum starting temperature of –20 degrees F and maximum operating ambient of 55 degrees C..
* Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
* Five-Year Fixture Failure Warranty.
* Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for nonconsumer equipment.

Dimming Ballast

* The ballast is supplied with a violet (+) and gray (-) wire for dimming control connections.
* Ballast dims to fifty percent of rated lamp wattage.
* Dimming voltage is 0-10V where 10V is high wattage and 0 is fifty percent of rated lamp wattage.
* Ballast operates the lamp at high wattage for 15 minutes at start up.
* Ballast operates lamp at high wattage for fifteen minutes after operating in dim mode for twenty-four hours.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
V2 OPTICAL - Open 22in. Reflector							
250	MH,P	55	1.3	A	452450	V2	AA
250	MH,P	55	1.5	G	452451	V2	AG
250	MH(Coated),P	55	1.3	A	452456	V2	AA
250	MH(Coated),P	55	1.5	F	452455	V2	AF
320, 350, 400	MH, P	55	1.6	A	452460	V2	AA
320, 350, 400	MH(Coated),P	55	1.6	A	452463	V2	AA
V6 OPTICAL - Open and Ventilated 26in. Reflector							
320, 350, 400	MH,P	55	1.6	B	178906	V6	AB
320, 350, 400	MH(Coated),P	55	1.7	C	178976	V6	AC
320, 350, 400	MH(Coated),P	55	1.6	B	178975	V6	AB
P2 OPTICAL - Enclosed 22in. with Acrylic prismatic conical lens							
250	MH,P	40**	1.1	A	452441	P2	AA
250	MH,P	40**	1.5	H	452442	P2	AH
250	MH(Coated),P	40**	1.1	A	452446	P2	AA
250	MH(Coated),P	40**	1.5	G	452445	P2	AG
320*	MH, P	40**	1.6	A	452454	P2	AA
320*	MH(Coated),P	40**	1.5	A	452459	P2	AA
320, 350, 400	MH(Coated),P	40**	1.8	A	452464	P2	AA

*320 watt is ED28 Pulse Start MH
**Contact Factory for 55C availability

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Max Temp	Spacing Criteria	Socket Position	Photometric Curve	Optical Code	Photometry Code
E2 OPTICAL - Enclosed 22in. with flat clear Acrylic lens							
250	MH,P	40**	1.0	E	452439	E2	AE
250	MH,P	40**	1.4	H	452440	E2	AH
250	MH(Coated),P	40**	1.0	D	452443	E2	AD
250	MH(Coated),P	40**	1.4	H	452444	E2	AH
320*	MH,P	40**	1.3	A	452452	E2	AA
320*	MH,P	40**	1.5	G	452453	E2	AG
320*	MH(Coated),P	40**	1.3	H	452466	E2	AH
350, 400	MH,P	40**	1.9	A	452462	E2	AA
350, 400	MH(Coated),P	40**	1.6	A	452465	E2	AA
E6 OPTICAL - Enclosed 26in. with flat clear Acrylic lens							
350,400	MH,P	55	1.6	B	179849	E6	AB
350,400	MH,P	55	1.8	D	179851	E6	AD
350,400	MH(Coated),P	55	1.6	D	179852	E6	AD
350,400	MH(Coated),P	55	1.9	H	179853	E6	AH

*320 watt is ED28 Pulse Start MH
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Data subject to change without notice